

## SAFETY DATA SHEET

# Group safety data sheet for Brantho-Korrux and Branth's Spezial-farben Thinner (Group 2)

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

*Trade name:* Group safety data sheet for Brantho-Korrux and Branth's Spezial-farben Thinner (Group 2)

*Unique formula identifier (UFI):* Branth's Kombi thinner: 57VY-D7AF-WG61-TQJ7  
Branth's Spezial thinner: MV9Q-C6Y6-T6EY-JPGS

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Thinner

*Uses advised against :* None known.

### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Branth-Chemie A.V. Branth KG**  
Biedenkamp 23  
DE-21503 Glinde  
Germany  
+49 (0)40 369740-50

*E-mail:* g.heinl@branth-farben-fabrik.de

*Revision:* 23/05/2024

*SDS Version:* 1.0

### 1.4. Emergency telephone number

For medical information (in German and English):  
+49 (0)551 192 40 (Poison Information Center North)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Flam. Liq. 3; H226, Flammable liquid and vapour.  
STOT SE 3; H336, May cause drowsiness or dizziness.

### 2.2. Label elements

*Hazard pictogram(s):*



*Signal word:* Warning

*Hazard statement(s):* Flammable liquid and vapour. (H226)

	May cause drowsiness or dizziness. (H336)
<i>Precautionary statement(s):</i>	
<i>General:</i>	Keep out of reach of children. (P102)
<i>Prevention:</i>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210) Use explosion-proof [electrical/lighting/ventilating] equipment. (P241) Avoid breathing mist/vapour. (P261) Do not get in eyes, on skin, or on clothing. (P262)
<i>Response:</i>	-
<i>Storage:</i>	Store in a closed container. (P404)
<i>Disposal:</i>	-
<i>Hazardous substances:</i>	1-methoxy-2-propanol n-butyl acetate 2-methoxy-1-methylethyl acetate 2-ethoxy-1-methylethyl acetate
<i>Additional labelling:</i>	EUH066, Repeated exposure may cause skin dryness or cracking.
<i>VOC:</i>	VOC content as supplied: Branth's Kombi thinner: < 900 g/l Branth's Spezial thinner: ca. 800 g/l

### 2.3. Other hazards

<i>Additional warnings:</i>	This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
1-methoxy-2-propanol	CAS No.: 107-98-2 EC No.: 203-539-1 REACH: 01-2119457435-35-XXXX Index No.: 603-064-00-3	0-40%	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
n-butyl acetate	CAS No.: 123-86-4 EC No.: 204-658-1 REACH: 01-2119485493-29-XXXX Index No.: 607-025-00-1	10-30%	EUH066 Flam. Liq. 3, H226 STOT SE 3, H336	[1]

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

2-methoxy-1-methylethyl acetate	CAS No.: 108-65-6 EC No.: 203-603-9 REACH: 01-2119475791-29-XXXX Index No.: 607-195-00-7	10-30%	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
Dearomatised Hydrocarbons, C9-C11, <2% aromatics, < 0.1 % benzene	CAS No.: 64742-48-9 EC No.: 919-857-5 REACH: 01-2119463258-33-XXXX Index No.:	3-10%	EUH066 Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336	[15], [19]
2-ethoxy-1-methylethyl acetate	CAS No.: 54839-24-6 EC No.: 259-370-9 REACH: 01-2119475116-39-XXXX Index No.: 603-177-00-8	3-10%	Flam. Liq. 3, H226 STOT SE 3, H336	
Methyl lactate	CAS No.: 547-64-8 EC No.: 208-930-0 REACH: Index No.: 607-092-00-7	3-10%	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335	
Dearomatised hydrocarbons, C9-C11, < 2% aromatics, < 0.1 % benzene	CAS No.: 1174522-20-3 EC No.: 807-936-6 REACH: 01-2119463258-33-XXXX Index No.:	3-10%	EUH066 Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

[1] European occupational exposure limit.

[15] The classification as a carcinogen / mutagen will not be taken into account as the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7) (CLP, Annex VI, note P).

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### *General information:*

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### *Inhalation:*

Upon breathing difficulties or irritation of the respiratory

<i>Skin contact:</i>	tract: Bring the person into fresh air and stay with him/her. IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
<i>Eye contact:</i>	If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.
<i>Ingestion:</i>	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
<i>Burns:</i>	Rinse with water until pain stops then continue to rinse for 30 minutes.

#### 4.2. Most important symptoms and effects, both acute and delayed

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.  
 Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

Flammable liquid and vapour.  
 In use may form flammable/explosive vapour-air mixture.  
 Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.  
 If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:  
 Carbon oxides (CO / CO<sub>2</sub>)

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in

order to obtain further advice.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Joint storage is permitted for products in storage classes: 2B, 3, 6.1A, 6.1C, 8A, 8B, 10, 12, 13

Restrictions apply to joint storage of products in storage classes: 5.1B, 6.1D, 11

Joint storage is NOT allowed for products in all other storage classes.

*Recommended storage material:*

Always store in containers of the same material as the original container.

*Storage class:*

Storage class 3 (Flammable liquids).

TRGS 510 - Storage of hazardous substances in non-stationary containers.

*Storage temperature:*

No specific requirements

*Incompatible materials:*

Strong acids, strong bases, strong oxidizing agents, and

strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

1-methoxy-2-propanol

Long term exposure limit (8 hours) (ppm): 100

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 370

Short term exposure limit (15 minutes) (ppm): 200

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 740

Category for short-term values: I

Annotations:

DFG = Senate Commission for the examination of Harmful working materials of the DFG (MAK Commission)

Y = No risk of fetal damage is to be feared if the occupational exposure limit (OEL) value and the biological limit value (BLV) are adhered to.

EU = European Union (The EU has set an exposure limit: Deviations in value and peak limit are possible.)

n-butyl acetate

Long term exposure limit (8 hours) (ppm): 62

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 300

Short term exposure limit (15 minutes) (ppm): 124

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 600

Category for short-term values: I

Annotations:

Y = No risk of fetal damage is to be feared if the occupational exposure limit (OEL) value and the biological limit value (BLV) are adhered to.

AGS = Committee on Hazardous Substances (Ausschuss für Gefahrstoffe).

2-methoxy-1-methylethyl acetate

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 270

Short term exposure limit (15 minutes) (ppm): 50

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 270

Category for short-term values: I

Annotations:

DFG = Senate Commission for the examination of Harmful working materials of the DFG (MAK Commission)

Y = No risk of fetal damage is to be feared if the occupational exposure limit (OEL) value and the biological limit value (BLV) are adhered to.

EU = European Union (The EU has set an exposure limit: Deviations in value and peak limit are possible.)

2-ethoxy-1-methylethyl acetate

Long term exposure limit (8 hours) (ppm): 20

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 120

Short term exposure limit (15 minutes) (ppm): 40

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 240

Category for short-term values: II

#### Annotations:

H = Risk of dermal absorption

DFG = Senate Commission for the examination of Harmful working materials of the DFG (MAK Commission)

Y = No risk of fetal damage is to be feared if the occupational exposure limit (OEL) value and the biological limit value (BLV) are adhered to.

(14) = Occupational Exposure Limit for the sum of the air concentrations of 1-ethoxypropan-2-ol and 2-ethoxy-1-methylethyl acetate.

Technical requirements for hazardous substances, workplace exposure limits, TRGS 900 (Jan. 2006)

## DNEL

### 1-methoxy-2-propanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	78 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	183 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	43.9 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	369 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	553.5 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	553.5 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	33 mg/kg bw/day

### 2-ethoxy-1-methylethyl acetate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	62 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	103 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	181 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	152 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	1420 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	2366 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	13.1 mg/kg bw/day

### Dearomatised Hydrocarbons, C9-C11, <2% aromatics, < 0.1 % benzene

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	178.57 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	837.5 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	410 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	1.9 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	640 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	1066.67 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	1152 mg/m <sup>3</sup>



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Short term – Systemic effects - Workers	Inhalation	1286.4 mg/m <sup>3</sup>
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#### n-butyl acetate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	3.4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	7 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	6 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	11 mg/kg bw/day
Long term – Local effects - General population	Inhalation	35.7 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	300 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	12 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	48 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	300 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	600 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	300 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	600 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	2 mg/kg bw/day
Short term – Systemic effects - General population	Oral	2 mg/kg bw/day

## PNEC

#### 1-methoxy-2-propanol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		10 mg/L
Freshwater sediment		52.3 mg/kg
Intermittent release (freshwater)		100 mg/L
Marine water		1 mg/L
Marine water sediment		5.2 mg/kg
Sewage treatment plant		100 mg/L
Soil		4.59 mg/kg

#### 2-ethoxy-1-methylethyl acetate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		2 mg/L
Freshwater sediment		8.2 mg/kg
Intermittent release (freshwater)		2 mg/L
Marine water		200 µg/L
Marine water sediment		820 µg/kg
Predators		117 mg/kg
Sewage treatment plant		62.5 mg/L
Soil		670 µg/kg

#### n-butyl acetate

Route of exposure:	Duration of Exposure:	PNEC:
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Freshwater		180 µg/L
Freshwater sediment		981 µg/kg
Intermittent release (freshwater)		360 µg/L
Marine water		18 µg/L
Marine water sediment		98.1 µg/kg
Sewage treatment plant		35.6 mg/L
Soil		90.3 µg/kg

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:*

Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:*

There are no exposure scenarios implemented for this product.

*Exposure limits:*

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:*

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product.

Avoid inhalation of vapours.

Vapour formation must be reduced to a minimum and be below the current limit values (see above).

If the regular air flow in the work area is not sufficient, the installation of a local supply and/or exhaust air system is recommended. Emergency and eye showers must be clearly labelled.

The usual precautionary measures apply when using the product. Avoid inhalation of vapours.

*Hygiene measures:*

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

*Measures to avoid environmental exposure:*

No specific requirements.

## Individual protection measures, such as personal protective equipment


*Generally:*

Use only CE marked protective equipment.


*Respiratory Equipment:*

Work situation	Type	Class	Colour	Standards	
	Respiratory protection is not needed in the event of adequate				


According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Work situation	Type	Class	Colour	Standards	
	ventilation.				
In the event of prolonged exposure or high concentrations	Combination filter A2B2E2K2-P3		Brown/Gray/Yellow/Green/White	EN14387	


**Skin protection:**

Work situation	Recommended	Type/Category	Standards	
When there is risk of splash- / intermittent exposure	Dedicated work clothing should be worn.	-	-	

**Hand protection:**

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
When there is risk of splash- / intermittent exposure	Latex/Neoprene	0,68	> 480	EN374-2, EN374-3, EN388, EN421	

**Eye protection:**

Work situation	Type	Standards	
When there is risk of splash- / intermittent exposure	Safety glasses with side shields.	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Colourless
<i>Odour / Odour threshold:</i>	Aromatic, Mild
<i>pH:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Density (g/cm<sup>3</sup>):</i>	0,9-1 (20 °C)
<i>Kinematic viscosity:</i>	> 20,5 mm <sup>2</sup> /s
<i>:</i>	Test method: DIN 53211
<i>Particle characteristics:</i>	Does not apply to liquids.

### Phase changes

<i>Melting point/Freezing point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Softening point/range (waxes and pastes) (°C):</i>	Does not apply to liquids.
<i>Boiling point (°C):</i>	120

<i>Vapour pressure:</i>	3-15 hPa (20 °C)
<i>Relative vapour density:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Decomposition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.

## Data on fire and explosion hazards

<i>Flash point (°C):</i>	28-36
:	Test method: DIN 53213
<i>Flammability (°C):</i>	The material is ignitable.
<i>Auto-ignition temperature (°C):</i>	>200
:	Test method: DIN 51794
<i>Lower and upper explosion limit (% v/v):</i>	0.5 - 11

## Solubility

<i>Solubility in water:</i>	<30 %
<i>n-octanol/water coefficient (LogKow):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Solubility in fat (g/L):</i>	Testing not relevant or not possible due to the nature of the product.

## 9.2. Other information

<i>VOC (g/L):</i>	ca. 800 - 900
<i>Other physical and chemical parameters:</i>	No data available.
<i>Oxidizing properties:</i>	Testing not relevant or not possible due to the nature of the product.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/substance	1-methoxy-2-propanol
Test method:	OECD 401
Species:	Rat, Fischer 344, male/female
Route of exposure:	Oral
Test:	LD50
Result:	3739 mg/kgbw

Product/substance	1-methoxy-2-propanol
Test method:	OECD 403
Species:	Rat, Fischer 344, male/female
Route of exposure:	Inhalation
Test:	LD50
Result:	> 7000 ppm

Product/substance	1-methoxy-2-propanol
Test method:	OECD 402
Species:	Rat, Fischer 344, male/female
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kgbw

Product/substance	n-butyl acetate
Test method:	OECD 423
Species:	Rat, Sprague-Dawley, male/female
Test:	LD50
Result:	12,2 mg/kgbw

Product/substance	n-butyl acetate
Test method:	OECD 402
Species:	Rabbit, New Zealand White, male/female
Route of exposure:	Dermal
Test:	LD50
Result:	> 16 mL/kgbw

#### Skin corrosion/irritation

Product/substance	1-methoxy-2-propanol
Test method:	OECD 404
Species:	Rabbit, New Zealand White, male/female
Duration:	4 hours
Result:	No adverse effect observed (Not irritating)

Product/substance	n-butyl acetate
Test method:	OECD 404
Species:	Rabbit, New Zealand White, male/female
Duration:	4 hours
Result:	No adverse effect observed (Not irritating)

#### Serious eye damage/irritation

Product/substance	1-methoxy-2-propanol
Test method:	OECD 405

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species:	Rabbit, New Zealand White, male/female
Duration:	72 hours
Result:	No adverse effect observed (Not irritating)

Product/substance	n-butyl acetate
Test method:	OECD 405
Species:	Rabbit, New Zealand White, male/female
Result:	No adverse effect observed (Not irritating)

### Respiratory sensitisation

Based on available data, the classification criteria are not met.

### Skin sensitisation

Product/substance	1-methoxy-2-propanol
Test method:	OECD 406
Species:	Guinea pig, male/female
Result:	No adverse effect observed (not sensitising)

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

### STOT-single exposure

Product/substance	1-methoxy-2-propanol
Species:	Human
Route of exposure:	Inhalation
Target organ:	Central nervous system
Conclusion:	Adverse effect observed

Product/substance	n-butyl acetate
Species:	Human
Route of exposure:	Inhalation
Target organ:	Central nervous system
Conclusion:	Adverse effect observed

Product/substance	2-methoxy-1-methylethyl acetate
Species:	Human
Route of exposure:	Inhalation
Target organ:	Central nervous system
Conclusion:	Adverse effect observed

Product/substance	2-ethoxy-1-methylethyl acetate
Species:	Human, male/female
Route of exposure:	Inhalation
Target organ:	Central nervous system
Conclusion:	Adverse effect observed

May cause drowsiness or dizziness.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

### Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Product/substance 1-methoxy-2-propanol  
Test method: DIN 38412  
Species: Fish, *Leuciscus idus*, male/female  
Compartment: Freshwater  
Duration: 96 hours  
Test: LC50  
Result: 6812 mg/L

Product/substance 1-methoxy-2-propanol  
Species: *Daphnia*, *Daphnia magna*, male/female  
Compartment: Freshwater  
Duration: 48 hours  
Test: LC50  
Result: 23300

Product/substance 1-methoxy-2-propanol  
Species: Algae, *Pseudokirchneriella subcapitata*, male/female  
Compartment: Freshwater  
Duration: 7 days  
Test: EC50  
Result: > 1000 mg/L

Product/substance n-butyl acetate  
Test method: OECD 203  
Species: Fish, *Pimephales promelas*, male/female  
Compartment: Freshwater  
Duration: 96 hours  
Test: EC50  
Result: 18 mg/L

Product/substance n-butyl acetate  
Test method: OECD 202  
Species: *Daphnia*, *Daphnia magna*  
Duration: 48 hours  
Test: EC50  
Result: 44 mg/L

## 12.2. Persistence and degradability

Product/substance n-butyl acetate  
Compartment: Air  
Duration: 28 days  
Result: 96 %  
Conclusion: Readily biodegradable  
Test: OECD 301 D

## 12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

## 12.7. Other adverse effects

None known.

# SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 3 - Flammable

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

<i>EWC code:</i>	08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances
	08 01 12	Waste paint and varnish other than those mentioned in 08 01 11

## Contaminated packing

<i>EWC code:</i>	15 01 10*	Packaging containing residues of or contaminated by dangerous substances
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# SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1	III	No	Limited quantities: 5 L Tunnel restriction code: (D/E) See below for additional



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

	<b>14.1 UN / ID</b>	<b>14.2 UN proper shipping name</b>	<b>14.3 Hazard class(es)</b>	<b>14.4 PG*</b>	<b>14.5 Env**</b>	<b>Other information:</b>
						information.
IMDG	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1	III	No	Limited quantities: 5 L EmS: F-E S-E See below for additional information.
IATA	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1	III	No	See below for additional information.

\* Packing group

\*\* Environmental hazards

#### **Additional information**

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

#### **14.6. Special precautions for user**

Not applicable.

#### **14.7. Maritime transport in bulk according to IMO instruments**

No data available.

### **SECTION 15: REGULATORY INFORMATION**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

*Restrictions for application:*

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

*Demands for specific education:*

No specific requirements.

*SEVESO - Categories / dangerous substances:*

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes

*REACH, Annex XVII:*

1-methoxy-2-propanol is subject to REACH restrictions, REACH annex XVII (entry 40).

n-butyl acetate is subject to REACH restrictions, REACH annex XVII (entry 40).

2-methoxy-1-methylethyl acetate is subject to REACH

	restrictions, REACH annex XVII (entry 40). Dearomatised Hydrocarbons, C9-C11, <2% aromatics, < 0.1 % benzene is subject to REACH restrictions, REACH annex XVII (entry 40). 2-ethoxy-1-methylethyl acetate is subject to REACH restrictions, REACH annex XVII (entry 40). Methyl lactate is subject to REACH restrictions, REACH annex XVII (entry 40). Dearomatised hydrocarbons, C9-C11, < 2% aromatics, < 0.1 % benzene is subject to REACH restrictions, REACH annex XVII (entry 40).
<i>WGK classification:</i>	WGK class: WGK 1
<i>Additional information:</i>	Not applicable.
<i>Volatile Organic Compounds (VOCs) subject to the Tax (OVOC):</i>	VOC content as supplied: Branth's Kombi thinner: < 900 g/l Branth's Spezial thinner: ca. 800 g/l
<i>Sources:</i>	Law on the protection of mothers at work, in training and in studies (Mutterschutzgesetz - MuSchG) 23.05.2017 (BGBl. I S. 1228). Twelfth ordinance for the implementation of the Federal Immission Control Act (Major Accidents Ordinance - 12th BImSchV). Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 15.2. Chemical safety assessment

No

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.  
 H226, Flammable liquid and vapour.  
 H304, May be fatal if swallowed and enters airways.  
 H319, Causes serious eye irritation.  
 H335, May cause respiratory irritation.  
 H336, May cause drowsiness or dizziness.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
GWP = Global warming potential  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### **Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the mixture in regard to physical hazards has been based on experimental data.

### **The safety data sheet is validated by**

Dr. Stephan Gleich

### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: DE-en